# AD105N-0100

## Alarmline II Digital LHD Cable 105°C (221°F) w/ Nylon Sheath - 100m

### General

The AD105N-0100 is a Digital Linear Heat Detection (LHD) cable with a 105°C (221°F) fixed temperature activation rating. It has a Nylon sheath that provides additional UV protection and increased durability for external applications and is supplied in 100m lengths.

The AD range of digital sensor cables provides a very simple fixed temperature heat detection system which can be used in many applications where other forms of detection are not suitable.

### Operation

The AD range of digital LHD cables contains a pair of twisted, low resistance, tri-metallic conductors sheathed with advanced temperature sensitive polymers. The cable operates by softening the insulation of the conductors, the tension of the twisted conductors then causes the two cores to fuse together. The sensor cable provides a simple switch operation which when used with a combination of end-of-line (EOL) monitoring and alarm trigger resistors can signal an alarm to any fire monitoring equipment through any monitored input i.e. conventional detection zone or addressable interface unit.

### Location Control Unit

Additional to the LHD sensor cable, an optional digital location control unit which monitors the sensor cable and can identify along the length of the sensor cable where an alarm condition has occurred, is also available.

### Cable fixings for all applications

A range of 'edge' ,'A' , 'P' , and 'T' clips allow the cable to be properly installed. The clips provide heat insulation as well as holding the cable at the correct distance from cable trays, steel works, ceilings and walls.



### Details

- cUL/UL 521 approved
- Up to 3000m (10,000ft per zone)
- Detection along total cable length
- Optional extrusions for different environments
- Simple maintenance free installation
- Suitable for use in hazardous areas
- RoHS Compliant

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## Technical specifications

### Electrical

| | |
|---|---|
| Operating voltage | 0 to 30 VAC, 0 to 42 VDC |
| No. of cable cores | 2 |

### Detection

| | |
|---|---|
| Alarm temperature (typical) | +105ºC |

### Conductor

| | |
|---|---|
| Resistance | 91 Ω/km (27.7 Ω/1000ft.) |
| Capacitance | < 73 pF/m (<22 pF/ft.) |
| Inductance | < 1.65 µH/m (<0.5 µH/ft.) |

### Physical

| | |
|---|---|
| Net weight | 2.52 kg |
| Colour | Black |
| Mounting type | Cable mount |

### Environmental

| | |
|---|---|
| Relative humidity | 0 to 100% noncondensing |
| Environment | Indoor, Outdoor |
| Protection | Nylon Sheath |
| Ambient temperature (max) | 69°C (156°F) |

### Regulatory

| | |
|---|---|
| Certification | CE, UL |

### Mechanical

| | |
|---|---|
| Outside diameter (Nominal) | 4.44mm ± 0.12mm |

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